



F6® BATTLE WRAP

DYNAMIC CUT THROUGH RESISTANCE > 330 LBS. SELF EXTINGUISHING · IMPACT RESISTANT

With all the superior protection of its predecessor, Battle Braid®, F6® Battle Wrap offers the added feature of easy application due to the legendary F6® split tube, wrap-around design. F6® Battle Wrap is a heavy duty, cut resistant wrap-around sleeving designed to protect wire and cable assemblies from heavy impacts and punctures. Durable polyester construction absorbs and dissipates energy to offer superior crush and abrasion protection making F6® Battle Wrap an obvious choice for the automotive industry where brake lines and wire harnesses could be exposed to extreme environments. Because of its impact and crushproof makeup, this sleeving is also ideal for EV manufacturers when power cable protection is of utmost importance while giving easy identification for emergency crews in the case of a crash situation. Not only a great choice during assembly but, because of its F6® construction, it is also perfect for maintenance and repairs without the need to disassemble a harness.

SIZING CHART

Nominal Size	Part #	Wall Thickness	*Put-Ups		Available Colors	Lbs/100'
			M	L		
3/8"	B6W0.38	.05"	25'	50'	2	4.50
1/2"	B6W0.50	.05"	25'	50'	2	5.50
5/8"	B6W0.63	.05"	25'	50'	2	6.10
3/4"	B6W0.75	.06"	25'	50'	2	8.20
1"	B6W1.00	.06"	25'	50'	2	10.40
1 1/4"	B6W1.25	.06"	25'	50'	2	12.60

*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



FEATURES

Material	Polyester
Grade	B6W
Wall Thickness	.05"-.06"
Drawing Number	TF001B6W-WD
Cutting	Hot Knife

COLORS



Orange (OR), Black (BK)

CERTIFICATIONS





ABRASION

Abrasion Resistance	EXTREME
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	72°F
Humidity	55%
Wear To Top Layer	500 Test Cycles
Top Layer Worn Through With Several Underneath Braid Filaments Broken	5,000 Test Cycles
Material Destroyed	7,500 Test Cycles
Pre-Test Weight	15.15g
Post-Test Weight	11.75g
Test End Loss Of Mass Point Of Destruction	3.4g

IMPACT RESISTANCE TEST

PASS = No Wires Showed Exposure of Copper Conductor

PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	NA
Flammability Rating (SAEJ369)	Self Extinguishing
Recommended Cutting	Hot Knife
Colors	2
Wall Thickness	.05"-.06"
Dynamic Cut Through Resistance (ASTM D 3032-22)	>330 lbs.
Specific Gravity (ASTM D-792)	
Moisture Absorption % (ASTM D-570)	
Hard Vacuum Data (ASTM E-595 at 10-5 torr)	
TML	
CVCM	
WVR	
Smoke D-Max (ASTM E-662)	
Outgassing	
Oxygen Index (ASTM D-2863)	

FLAMMABILITY

Rating (SAEJ369)	Self Extinguishing
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OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	482-500°F / 250-260°C
Maximum Continuous	302°F / 150°C
Minimum Continuous	-40°F / -40°C

CHEMICAL RESISTANCE

1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely Affected

Gasoline Fuel	1
Diesel Fuel	1
Brake Fluid	1
Anti-Freeze Coolant	1
20W/50 Motor Oil	1
Transmission Fluid	1
Power Steering Fluid	1
Windshield Washer Fluid	1
5 % Salt Water	1
Battery Fluid	1
RoHS	Yes
SVHC	